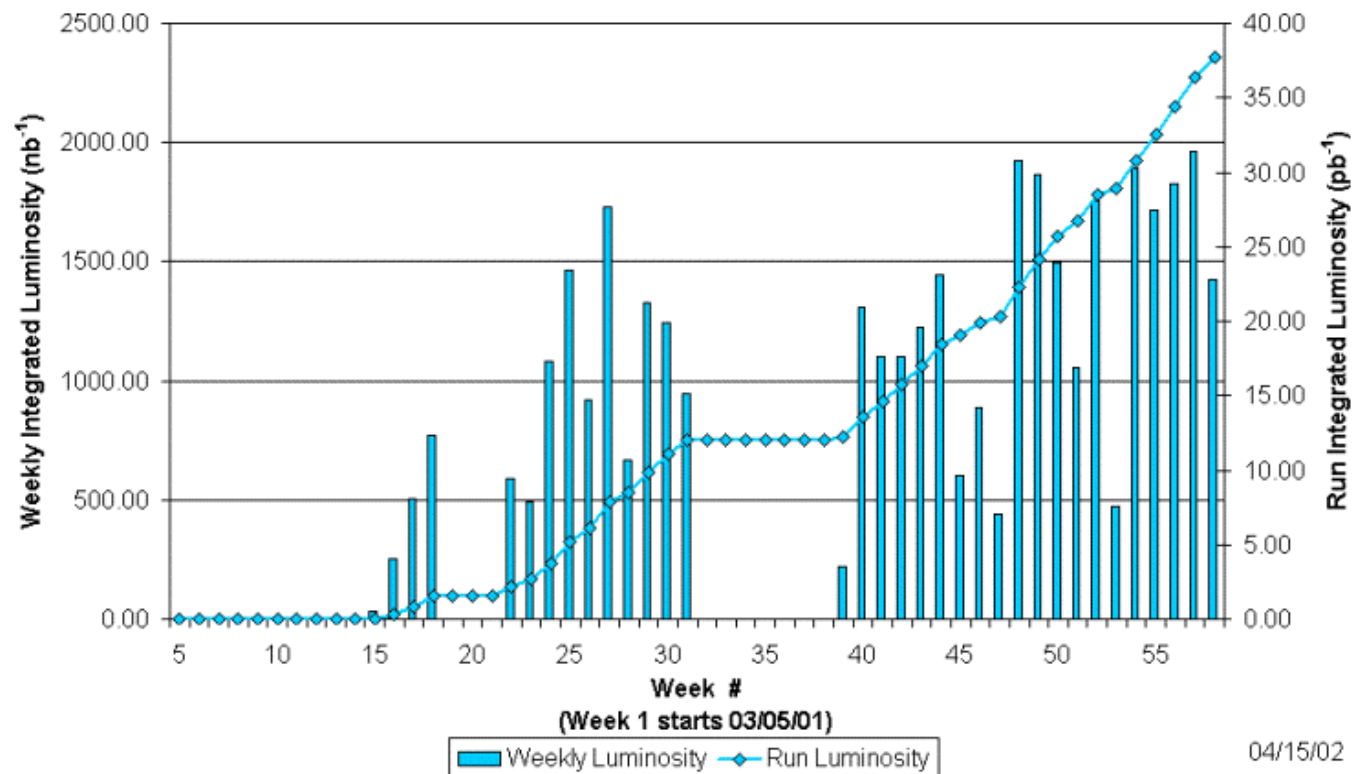


Integrated Luminosity



Collider Run IIA Integrated Luminosity

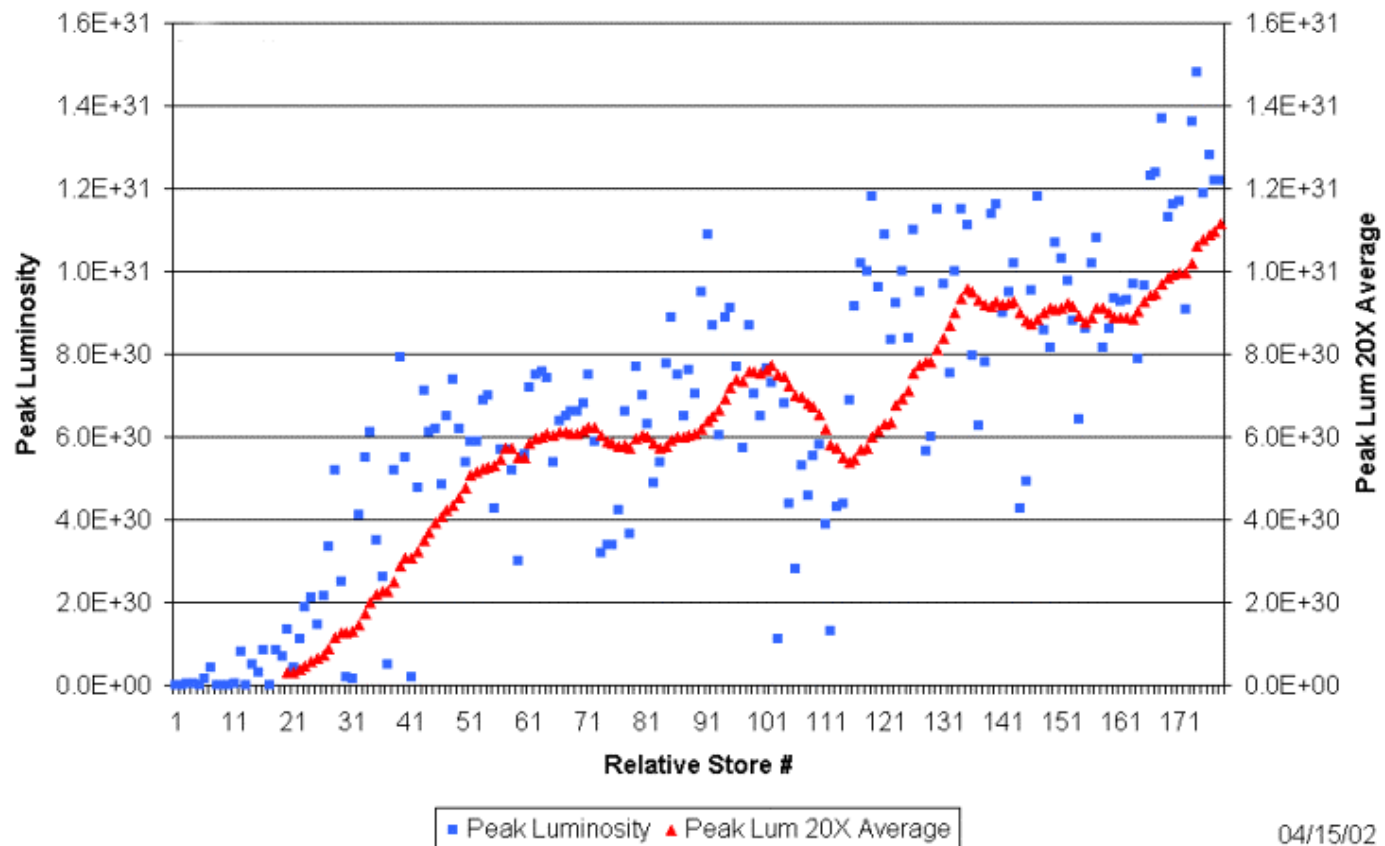


04/15/02

Peak Luminosity

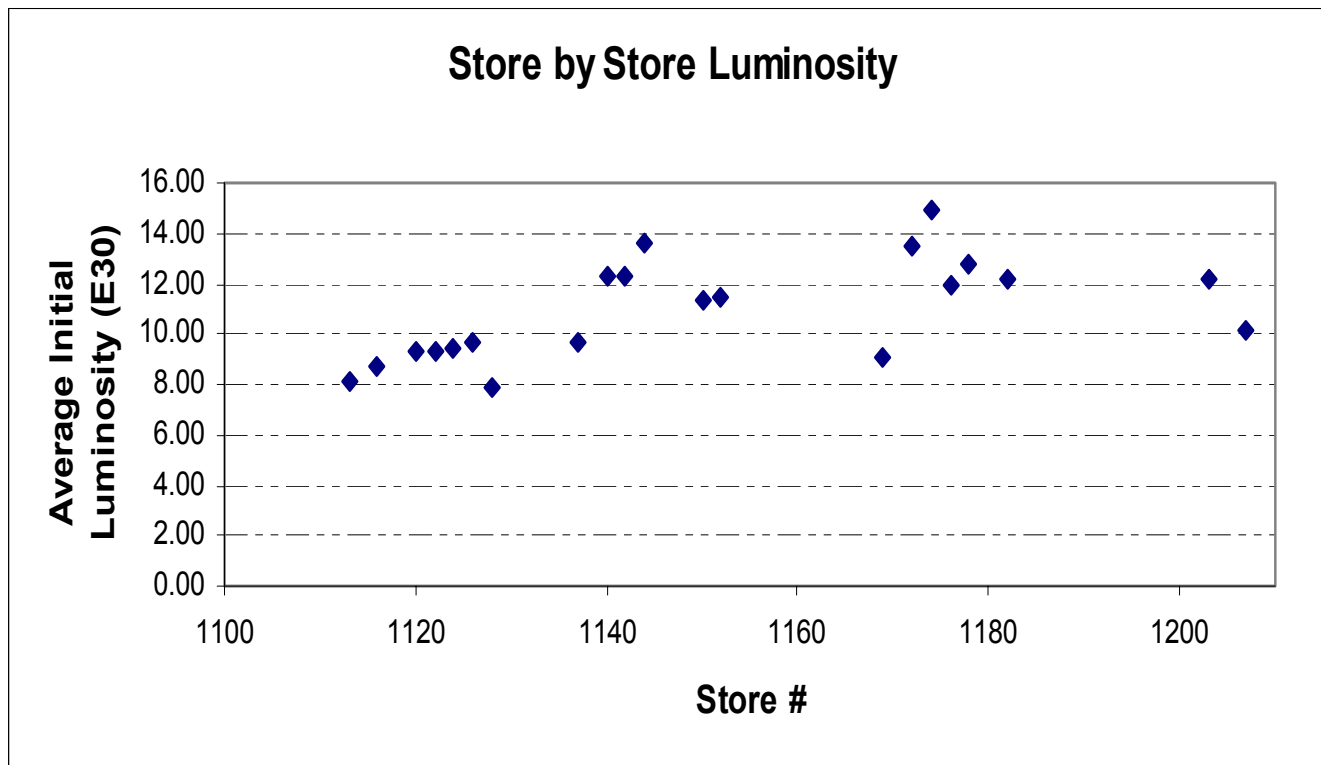


Collider Run IIA Peak Luminosity

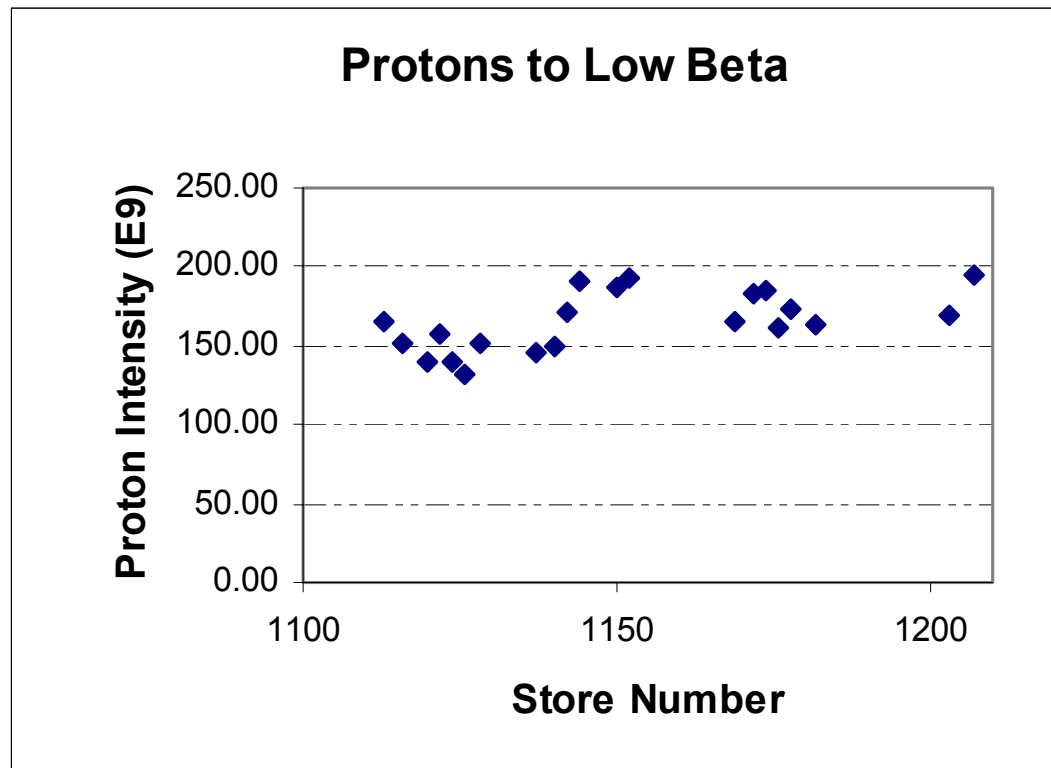


04/15/02

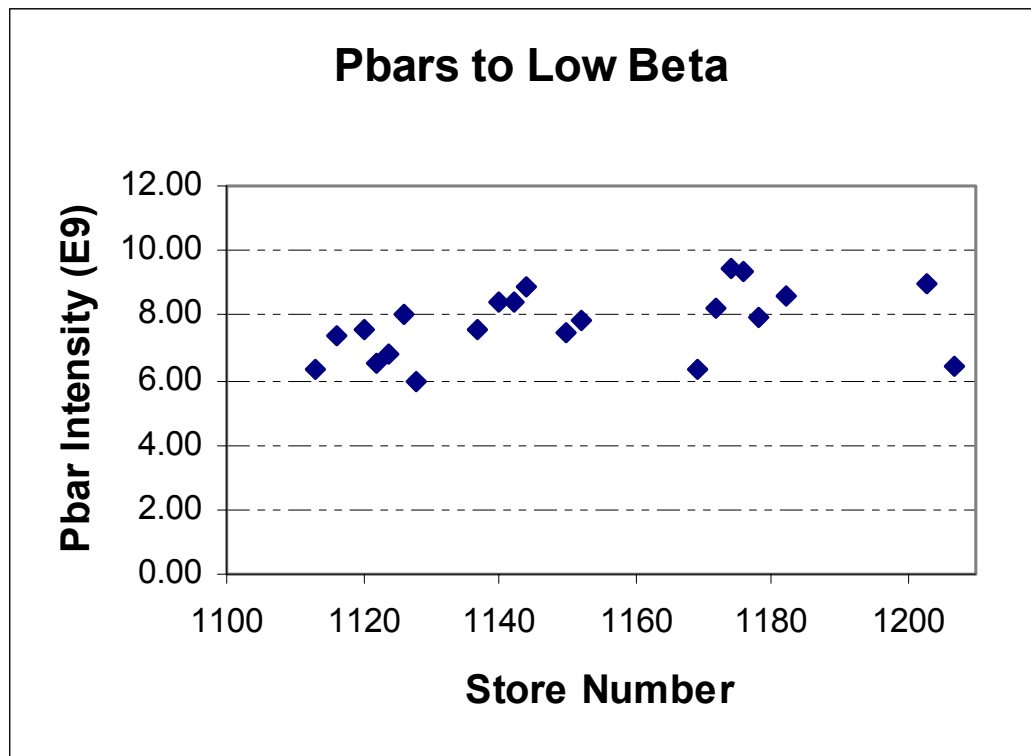
Initial Luminosity



Protons to Collision



Pbars to Collision

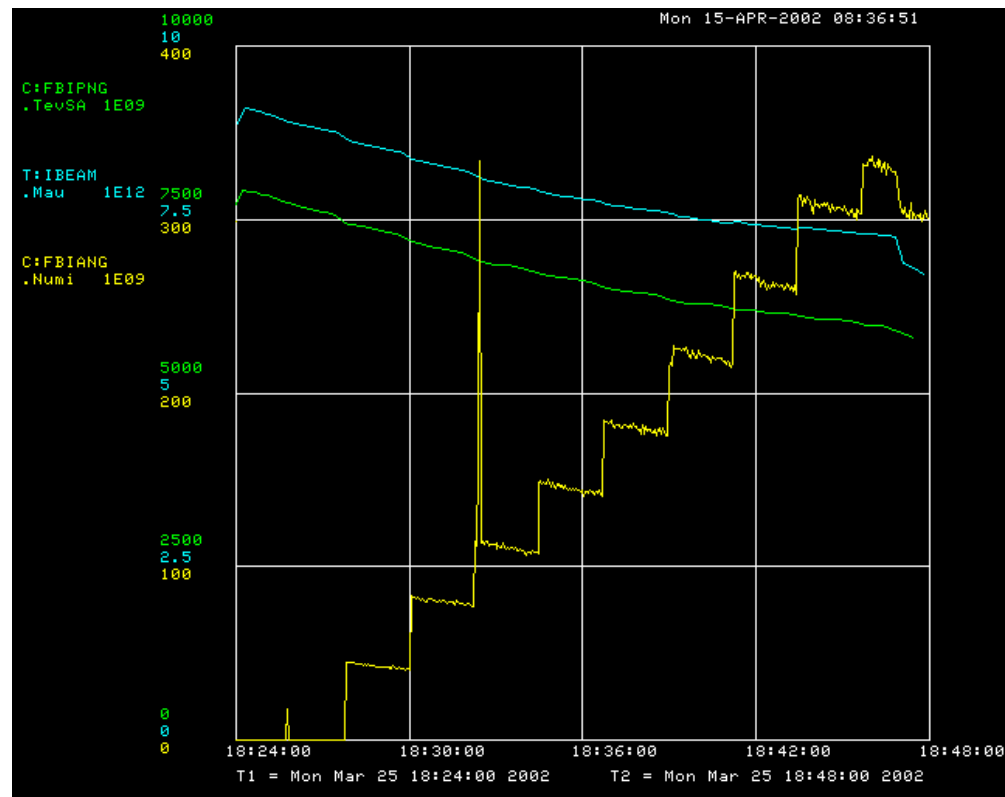
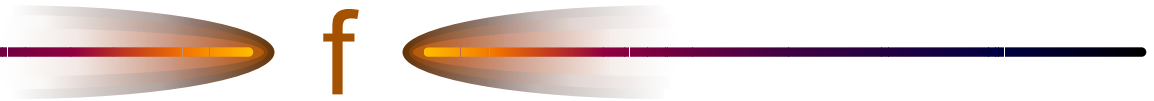


Tevatron Studies Summary



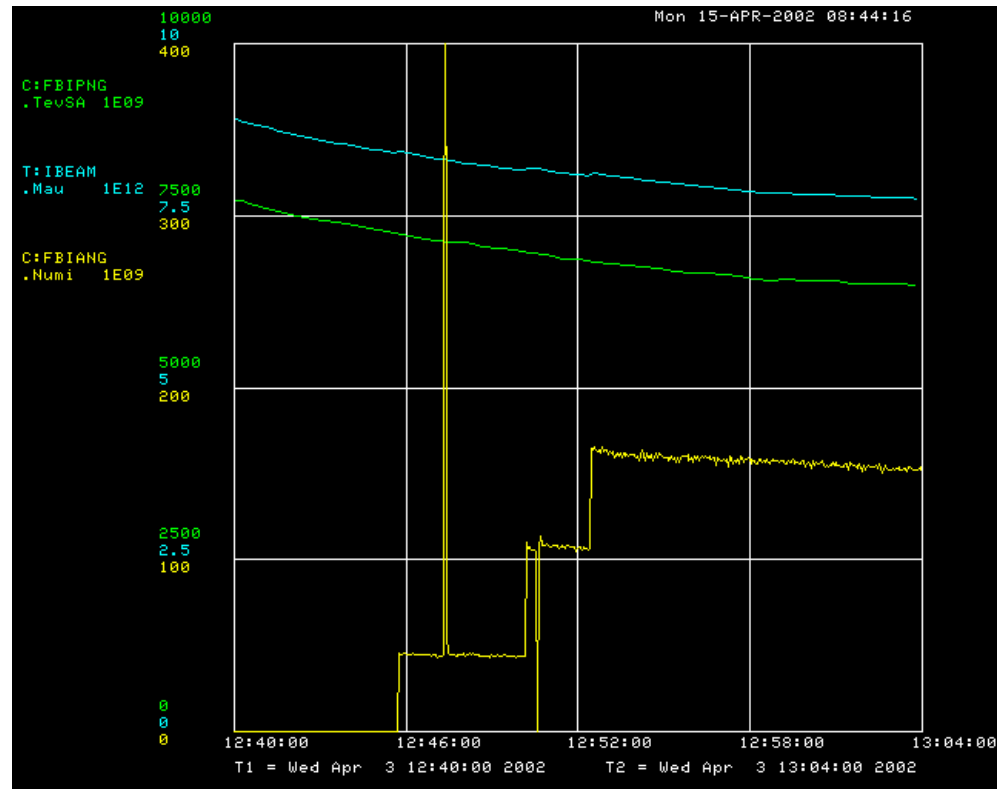
- 150 GeV Lifetime
- Parse the Squeeze (tune up)
- Collimators (no beam available)
- 36 X 12 to test new Helix

Tevatron Studies Summary



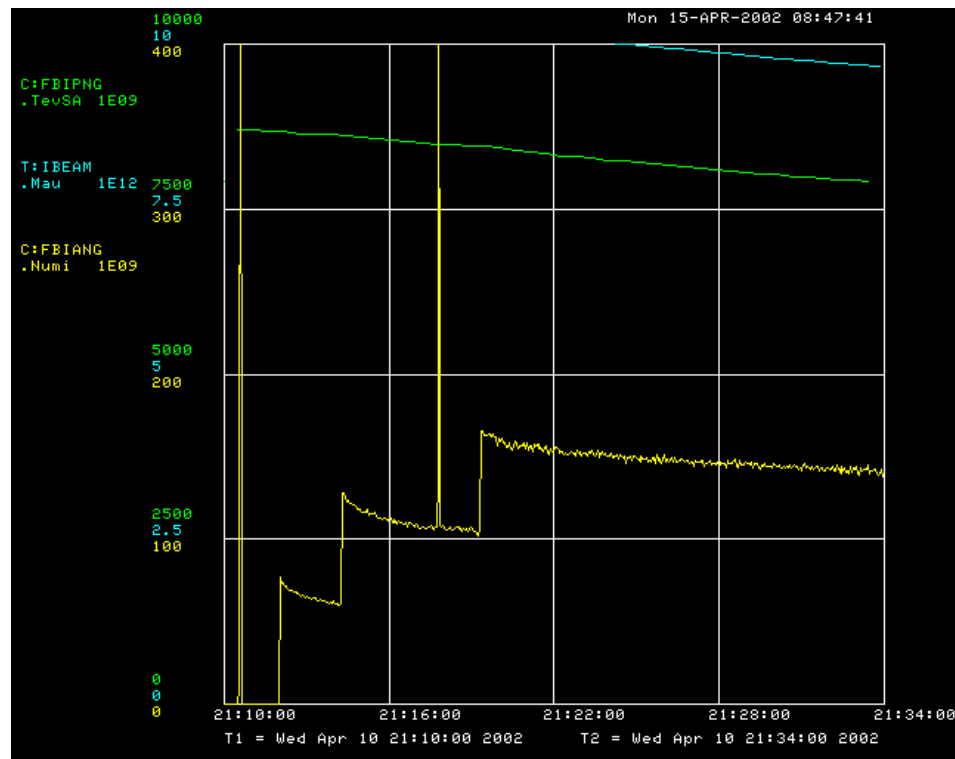
Store #1128

Tevatron Studies Summary



First 36 X 12

Tevatron Studies Summary



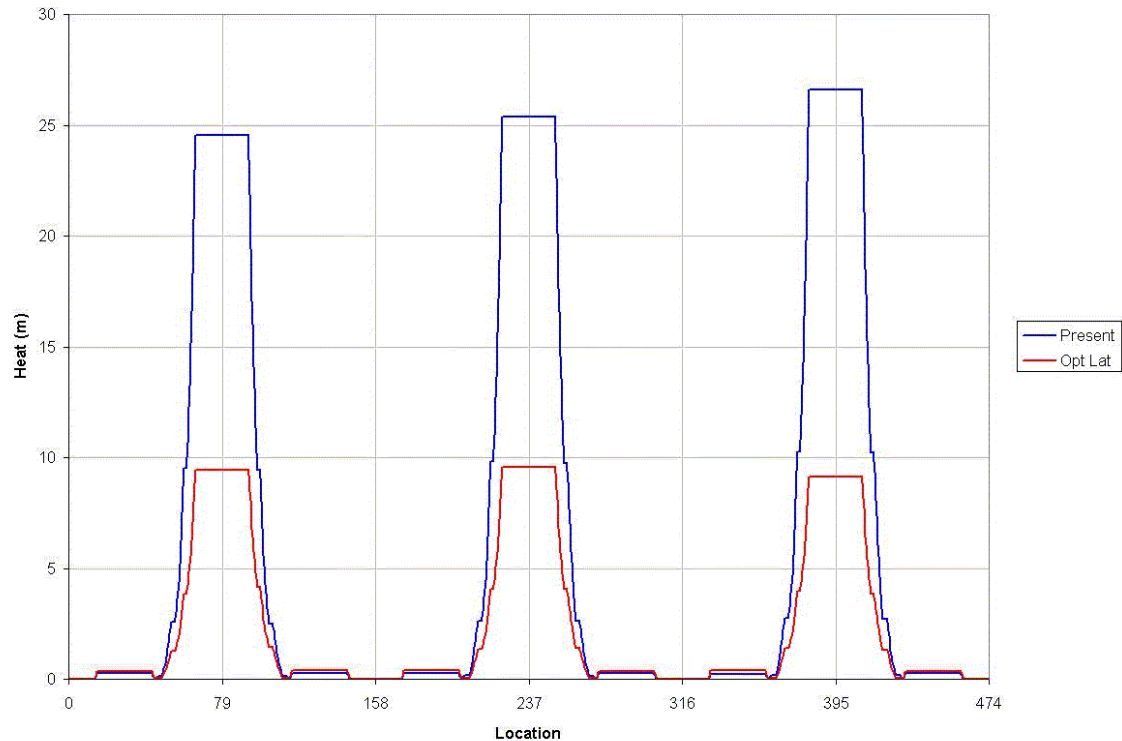
Most recent 36 X 12

Pbar Studies Summary



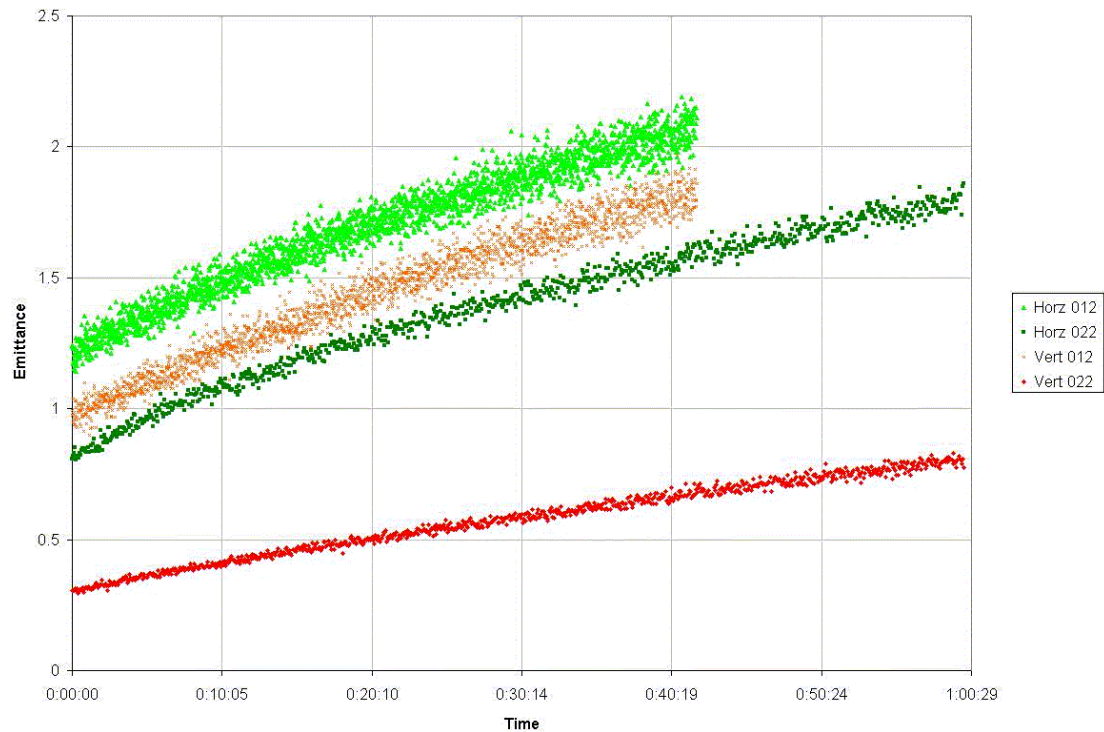
- New lattice IBS studies
 - Pbar stack moved to central orbit
 - change the lattice
 - compare heating rates
- Conclusions;
 - The 4-D and 6-D phase space products showed almost a factor of 3 lower emittance and growth rate
 - The initial conditions between the current lattice and the study lattice were not the same, another study needed

Pbar Studies Summary



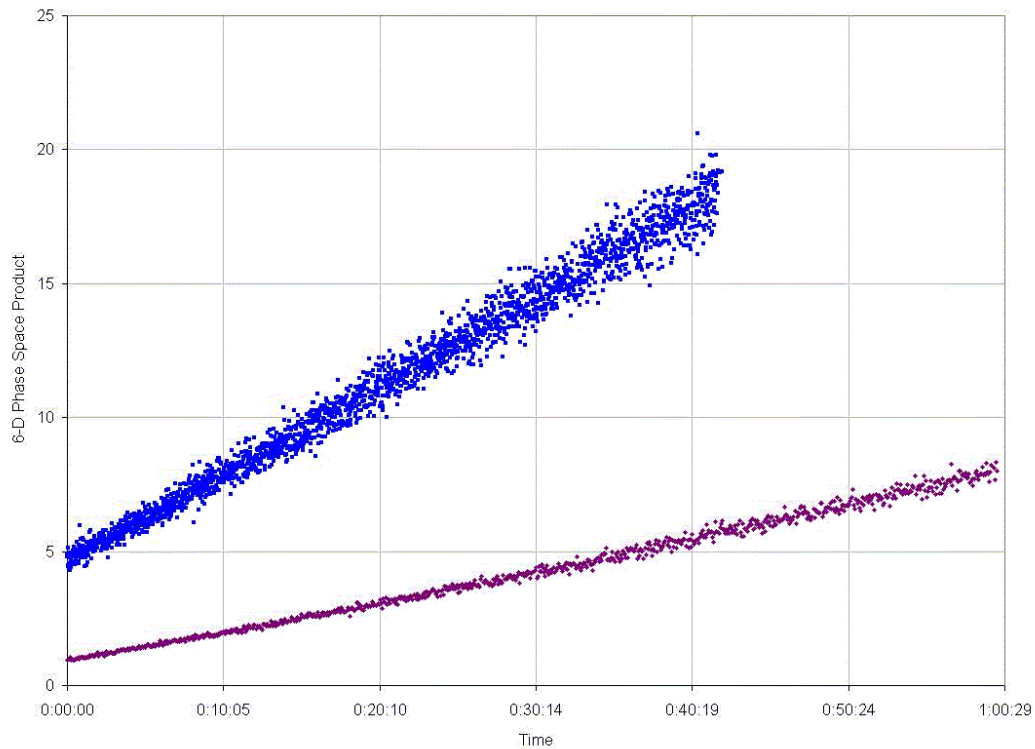
Transverse Heating terms

Pbar Studies Summary



Transverse Heating Rates

Pbar Studies Summary



6-D Phase Space Growth Rate

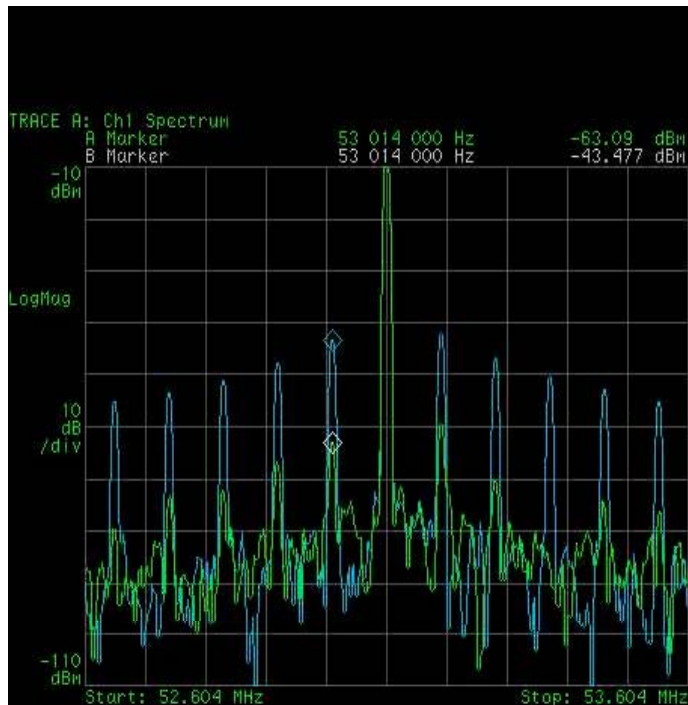
MI Studies Summary



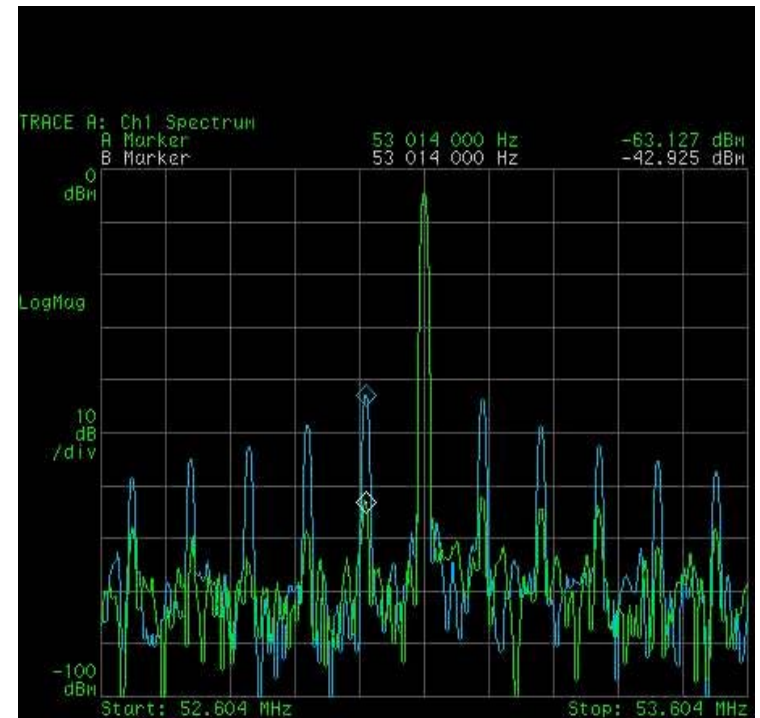
- Beam loading compensation
- Transverse emittance (growth) vs. Booster intensity

MI Studies Summary

f

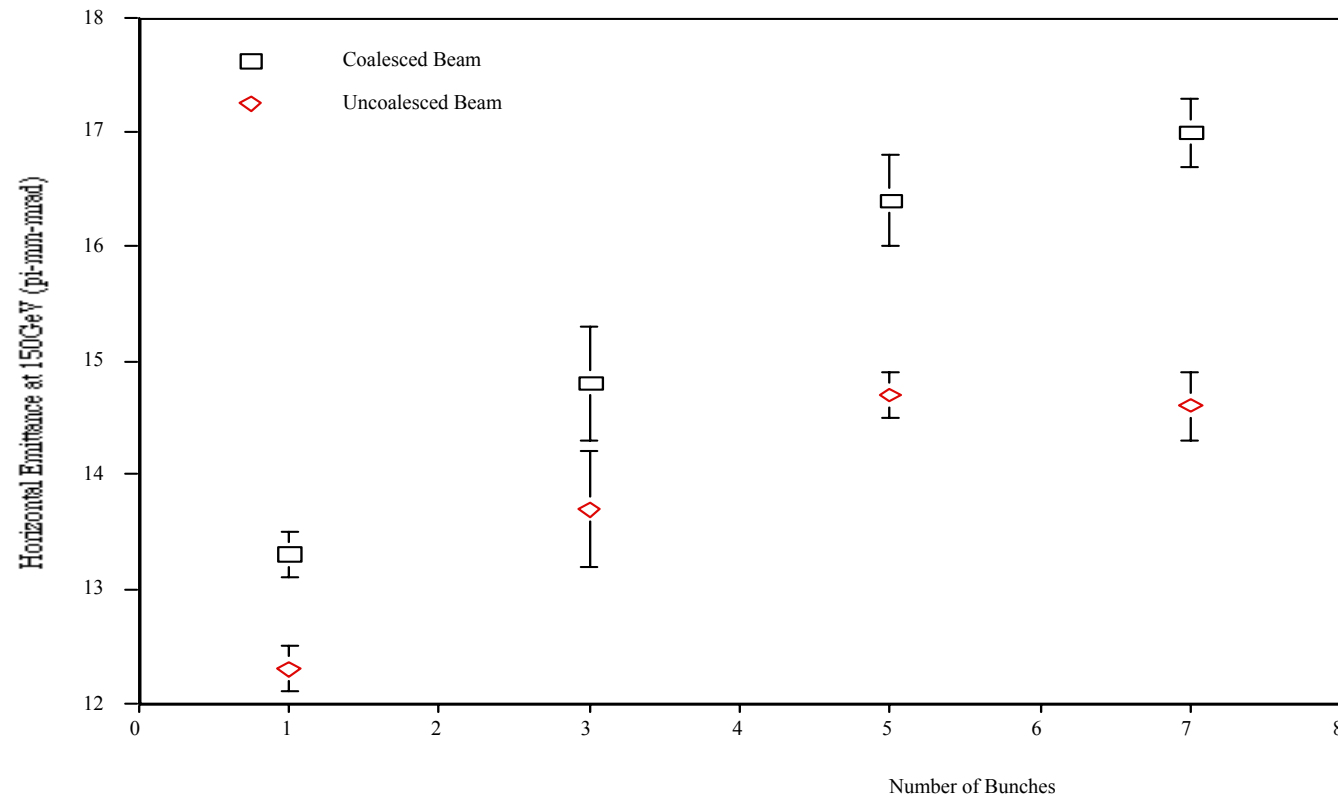


Beam loading Compensation on Station 1



Beam loading Compensation on Station 2

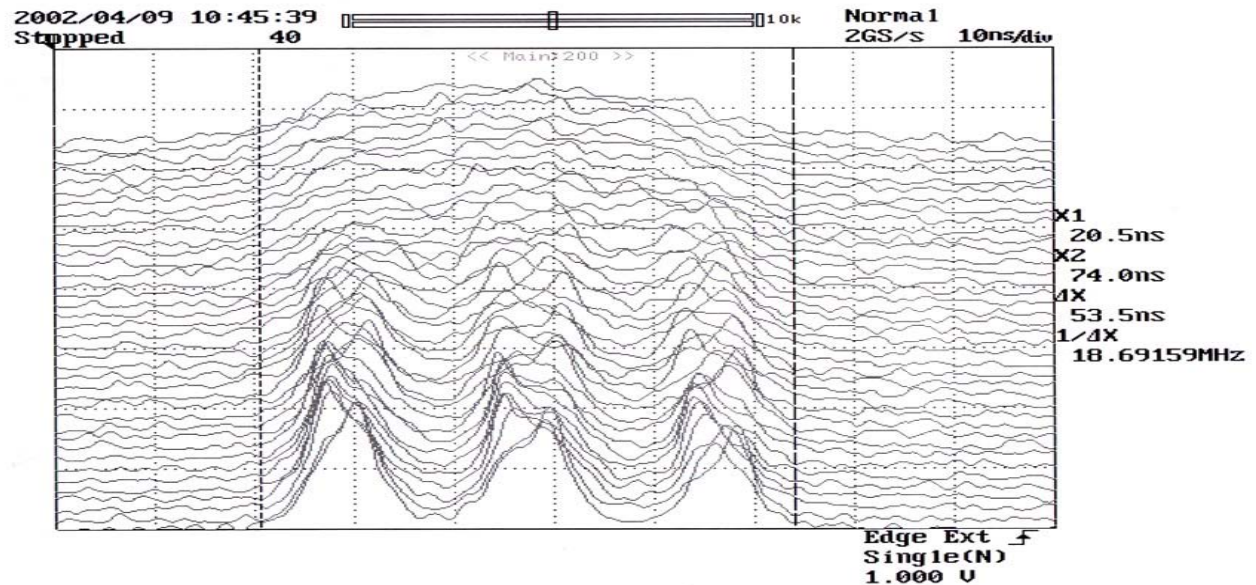
MI Studies Summary



Horizontal Emittance at 150 GeV for 8 Booster Turns vs # of Bunches

MI Studies Summary

f



7.5 MHz Coalescing for RR Injection